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Research Methodology of Action and Technological Innovation on Training Quality in Improving the Capability of Non-Commissioned Soldiers and Enlisted Soldiers of Group 1 Indonesian Army Spesial Force

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Abstract: The quality of military training is a key factor in creating soldiers who are well-trained and ready to face various challenges in the field. In the Kopassus environment, known as the elite unit of the Indonesian Army, improving the quality of training is very important considering the complexity of the tasks and missions carried out. In addition, the challenges faced by Kopassus in carrying out its operational missions are increasingly complex, especially with the development of new technologies and tactics. The method used is qualitative. The results of this study are that the current quality of training is considered to require improvement in order to achieve goals, one of which is related to the intellectual and physical abilities of Indonesian Army Special Force Corps soldiers. With the increasing dynamics of global conflict developments, it is necessary to improve the quality of training. There are several aspects that can be improved, including physical, intellectual or scientific and technical. In implementing improvements in the quality of training, it is necessary to implement new things in accordance with current developments by applying action research methods and technological innovation. There are several factors that influence this, including the readiness of resource support and supporting technical instructions.

Keyword: Action Research Methods, Technological Innovation, Training Quality & Capability.

INTRODUCTION

Quality exercise military is factor key in create trained and ready soldiers face various challenges in the field. In the Special Force Corps environment, which is known as elite units of the Indonesian Army, enhancement quality exercise become very important remember complexity tasks and missions carried out. In context this, methodology study action (action research) offers an innovative approach for evaluate and improve the training process in a way sustainable. Methodology study action focused on collaboration between researchers and practitioners for identify problem, designing intervention, as well as evaluate results from intervention The approach this is very relevant for applied in context Special Force Corps

training, where the dynamics group, needs individuals, and demands situation often changed. With involving member in the research process, it is expected can created more solutions effective and adaptive to condition real in the field. Besides that is the challenge faced by Kopassus in operate mission its operation the more complex, especially with development technology and tactics new. Therefore that's important For Keep going continuously do evaluation and improvement to method applied exercises. Implementation methodology study action allow more data collection deep about effectiveness exercises, and give room for member for contribute in development of more training programs good. Method study action is a strategy that tries find solution realistic for difficulties and problems organization. This is similar with study applied. Research action in essence is Study while do. First, a problem identified, then done a number of action for overcome it, then how much Good efforts made measured, and if the result no satisfying, steps the applied back (Hopkins, 2011).

Innovation is a process of renewal from use sources nature, energy and capital, regulation new from power work and use technology new all will cause existence system production, and its creation new products. With thus innovation That about Updates special culture about element technology and economy innovation process Already of course very close stuck the connection with invention new in technology. A invention usually it is also a long social process that goes through two stage specifically, namely discovery and invention. Discovery is a invention from a element new culture, whether in the form of a tool new, a new idea, created by a person individual, or a series from a number of individual in the community concerned. New discovery become an invention if public Already acknowledge, accept, and implement invention new that (Koentjaraningrat, 2002). Technology has become substantial needs moment this and how technology has play enough role important globally. Human can connected one each other with easy, problems the former social just abstract, now has have a number of easy solution. Concepts business existing conventional, slowly has start obsolete and replaced with pattern business new that utilizes technology as a medium of transformation for cut costs No need that long This has become afraid alone for business people existing conventional moment This. Innovation No can inevitable , presence innovation makes some people irritated who have sitting in the comfort zone too long so that experience hassle when must changed and must think about concepts business new which in the end will challenge that is For still endure or release businesses conventional Because pressed by costs a company that is increasingly big and onslaught innovative launched by generations young moment this is what I think For solve problems social that has long been happening in several sector .

Exercise can formulated as all power and effort For increase in a way comprehensive condition physique with a systematic and repetitive process with increasingly day increasingly increase amount burden practice, time or its intensity. This is in line with opinion Harsono (Kusnadi, Nanang and Rd. Herdi Hartadji, 2014) "Training is a systematic process from practice /work , which is done in a way over and over again with increasingly day increasingly add amount burden exercise or his work".

Exercises are done No only just do activity exercise just but in the exercise must own clear and precise objectives, not except in activity exercise sports. The purpose of exercise according to Harsono (2013). Objectives as well as target main from exercise or training is for help athlete for increase his skills and achievements as much as possible maybe. Ability means capacity a individual For do diverse task in a jobs. More carry on Sthepen P. Robbins (1999) stated that ability overall a individual basically consists of on two group factors, namely.

Ability intellectual (intellectual ability), is required skills For do various mental activities (thinking, reasoning and solving problems) problem). Ability physical, is ability do tasks that require stamina, skill, strength and characteristics similar.

METHOD

Qualitative research methods are research methods based on philosophy, which are used to conduct research in scientific conditions (experiments) where the researcher is the instrument, data collection techniques and qualitative analysis place more emphasis on meaning (Sugiyono, 2018).

RESULTS AND DISCUSSION

The current quality of training is considered to need improvement in order to achieve the goals, one of which is related to the intellectual and physical abilities of Indonesian Army Special Force Corps soldiers. A number of problems that can be identified is quality training in Special Force Corps varies depends on many things factors, including experience coaches, facilities available, and methods used. Inconsistency This can cause member No get the same skills and knowledge. For example, some member Possible Follow a more exercise program intensive and focused, while others may be only get training basic. This is create gap in ability among members, who can have fatal consequences when operation combat. For overcome problem this, it is necessary There is standard clear evaluation and procedures accreditation For every training program. One of aspect important in training program development is involving member in the process of evaluation and improvement. Without bait come back from those who undergo exercise, the program Possible No reflect need real in the field. Members often have outlook valuable about what works and what does n't , but without clear channel For convey input them , many ideas and suggestions are lost . This can result in low motivation and engagement member in the training process, as well as reduce effectiveness of the program in general Overall. Military world Keep going develop with fast, especially in matter tactics and technology. Methods training used a number of year Then Possible Already No relevant with challenges faced moment this. For example, the use of drone technology in operation military need approach new in training. If the training program No capable adapt with change this, member Possible No Ready For face situation real in the field. Therefore that 's important for develop flexible and responsive training programs to development latest in the field military. When This, many training programs measured based on results quantitative like amount exercises performed or time spent for practice. However, the measurement This often No covers aspect qualitative, such as satisfaction member to exercise and impact psychological from training said. Without comprehensive understanding about effectiveness practice, difficult for know is the program truly fulfil desired goal. Therefore that, is needed method further evaluation holistic and diverse for evaluate success of the training program. Military training often done in a way individual or in group small without notice dynamics team in a way overall. This matter can hinder development skills Work The same very important team in operation field. Inability For Work The same in a way effective can cause fatal errors in the field, especially in situation pressure high. For overcome problem this, training program must designed for push collaboration and communication between members, so that they can Study Work The same with more good. Implementation methodology study action in the training program Possible face resistance from various parties. Some member Possible feel comfortable with old and reluctant way for try approach new. Besides that, the lack of understanding about benefit methodology This can make they skeptical to changes. For overcome resistance this is important for give education and training about profit from methodology study action as well as involving member in the process of change so that they feel own part in program development. Limitations source Power often become obstacle main in implementation of more training programs innovative. This Can including limitations time For do exercise additional, non- existent facilities adequate For simulation or practice, as well as lack of trained instructor with good. Limitations This can limit ability For apply method new or do evaluation comprehensive to the existing program. Therefore that, it is necessary There is allocation source more power good and management strategy For ensure that all member get training

quality tall. With the increasing dynamics of global conflict developments, it is necessary to improve the quality of training. There are several aspects that can be improved, including physical, intellectual or scientific and technical. In implementing the improvement of the quality of training, it is necessary to implement new things in accordance with current developments, one of which is the action research method. With the implementation of this action research method, an evaluation will be carried out regarding the techniques and methods that are considered efficient and effective. As is known, the action research method is an effort made to improve the quality of training by making improvements to variables that are less effective and relevant to the development of challenges that will be faced. The results that will be obtained later are expected to be able to find a training system that can significantly improve the abilities of Indonesian Army Special Force Corps soldiers. Some stages of action research include planning so that the action research project can run well, researchers need to plan it well. After coming up with a research topic or question after a research study, the first step is to develop an action plan to guide the research process. The research plan aims to answer the research questions. The research strategy outlines what to do, when, and how. The next step is to implement the plan and collect data. At this point, the researcher must choose how to collect and organize the research data. The researcher also needs to check all the tools and equipment before collecting data to ensure they are relevant, valid, and comprehensive. Data observation is essential for any investigation. Action researchers need to review the goals and expectations of the project before data observation. This is the final step before drawing conclusions and taking action. Various types of graphs, charts, and networks can be used to represent data. This helps in making judgments or moving on to the next stage of observation. Then the next stage is to reflect, this step involves implementing prospective solutions and observing the results. It is very important to see if the possible solutions found through research can actually solve the problem being studied. Researchers should explore alternative ideas when the action research project solution fails to solve the problem.

At this time, we have entered the Industrial Revolution 5.0 Era where the use of technology has been carried out massively. The technology that has increased is the use of the internet of things and artificial intelligence. Given the challenges that will be faced later are influenced by technological developments. At this time, every military operation has involved various uses of technology in the industrial revolution 5.0 era. Indonesian Army Special Force Corps soldiers must have the ability to use this technology. There are five indicators of ability, namely: knowledge which is the foundation on which to build ability. Training which is one way to hone the abilities of a person or individual. The training process uses systematic and organized procedures. Experience which is the level of a person's ability can also be seen from their experience. The more experience a person has, the better their ability is compared to those who are inexperienced. Skills which are a person's ability to master tools or do a task that is carried out. Ability which is a condition in which an individual is able to complete the task given. Improving the ability to master technology is one of them through training. The quality of training for Indonesian Army Special Force Corps soldiers can be improved and adjusted to current needs through the use of technological innovation. As is known, technological innovation can affect various things, such as efficiency which provides an overview of technological innovation can increase training efficiency, increasing productivity in this case technological innovation can increase the results obtained from training, technological innovation also plays a role in improving performance in the training process, technological innovation is also able to make the logistics system more efficient so that it plays a role in implementing training.

There are several factors that influence, including the readiness of resource support and supporting technical instructions. Readiness of resource support, especially for the implementation of technological innovation and action research methods. Support for human resources and supporting technological equipment and adequate infrastructure have an impact

on the implementation of action research methods and technological innovation on the quality of training in order to have a major impact on improving the capabilities of Indonesian Army Special Force Corps soldiers.

CONCLUSION

The current quality of training is considered to need improvement in order to achieve the objectives, one of which is related to the intellectual and physical abilities of Indonesian Army Special Force Corps soldiers. With the increasing dynamics of global conflict developments, it is necessary to improve the quality of training. There are several aspects that can be improved, including physical, intellectual or scientific and technical. In implementing the improvement of the quality of training, it is necessary to implement new things in accordance with current developments by applying action research methods and technological innovation. There are several factors that influence this, including the readiness of resource support and supporting technical instructions.

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